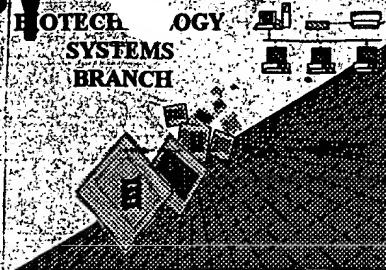


Block FILE COPY
**RAW SEQUENCE LISTING
ERROR REPORT**



RHS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/601,168
Source: Batch
Date Processed by STIC: 10-5-00

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE - SEE BELOW.

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows-based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§ 1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

BATCH

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/601,168

DATE: 10/05/2000
 TIME: 14:54:23

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\10052000\I601168.raw

*Does Not Comply
 Corrected Diskette Needed*

3 <110> APPLICANT: BENAROUS, Richard
 4 MARGOTTIN, Florence
 5 DURAND, Herve
 6 ARENZANA SEISDEDOS, Fernando
 7 KROLL, Mathias
 8 CONDORCET, Jean-Paul
 10 <120> TITLE OF INVENTION: Human (TrCP protein for targeting proteins towards
 11 proteasome degradation pathways
 W--> 0 <130> FILE REFERENCE:
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/601,168
 C--> 14 <141> CURRENT FILING DATE: 2000-07-28
 16 <150> PRIOR APPLICATION NUMBER: FR98 01100
 17 <151> PRIOR FILING DATE: 1998-01-30
 19 <150> PRIOR APPLICATION NUMBER: FR98 15545
 20 <151> PRIOR FILING DATE: 1998-12-09
 22 <160> NUMBER OF SEQ ID NOS: 8
 24 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 2151
 E--> 28 <212> TYPE: ADN →
 29 <213> ORGANISM: Artificial sequence
 31 <220> FEATURE:
 32 <221> NAME/KEY: CDS
 33 <222> LOCATION: (70)..(1776)
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: Description of the artificial sequence : ADNC
 37 coding for human (TrCP protein
 39 <400> SEQUENCE: 1
 40 tgcgttggct gcccctggc accaaagggg cggcccccggc ggagagcgga cccagtggcc 60
 42 tcggcgatt atg gac ccg gcc gag gcg gtg ctg caa gag aag gca ctc aag 111
 43 Met Asp Pro Ala Glu Ala Val Leu Gln Glu Lys Ala Leu Lys
 44 1 5 10
 46 ttt atg aat tcc tca gag aga gaa gac tgt aat aat ggc gaa ccc cct 159
 47 Phe Met Asn Ser Ser Glu Arg Glu Asp Cys Asn Asn Gly Glu Pro Pro
 48 15 20 25 30
 50 agg aag ata ata cca gag aag aat tca ctt aga cag aca tac aac agc 207
 51 Arg Lys Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser
 52 35 40 45
 54 tgt gcc aga ctc tgc tta aac caa gaa aca gta tgt tta gca agc act 255
 55 Cys Ala Arg Leu Cys Leu Asn Gln Glu Thr Val Cys Leu Ala Ser Thr
 56 50 55 60
 58 gct atg aag act gag aat tgt gtg gcc aaa aca aaa ctt gcc aat ggc 303
 59 Ala Met Lys Thr Glu Asn Cys Val Ala Lys Thr Lys Leu Ala Asn Gly

Global error:

*Valid responses for <212> type
 are DNA, RNA, or PRT*

→ CDNA?

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/601,168

DATE: 10/05/2000

TIME: 14:54:23

Input Set : A:\PTO.txt

Output Set: N:\CRF3\10052000\I601168.raw

60	65	70	75	
62	act tcc agt atg att gtg ccc aag caa cgg aaa ctc tca gca agc tat			351
63	Thr Ser Ser Met Ile Val Pro Lys Gln Arg Lys Leu Ser Ala Ser Tyr			
64	80	85	90	
66	gaa aag gaa aag gaa ctg tgt gtc aaa tac ttt gag cag tgg tca gag			399
67	Glu Lys Glu Lys Glu Leu Cys Val Lys Tyr Phe Glu Gln Trp Ser Glu			
68	95	100	105	110
71	tca gat caa gtg gaa ttt gtg gaa cat ctt ata tcc caa atg tgt cat			447
72	Ser Asp Gln Val Glu Phe Val Glu His Leu Ile Ser Gln Met Cys His			
73	115	120	125	
75	tac caa cat ggg cac ata aac tcg tat ott aaa cct atg ttg cag aga			495
76	Tyr Gln His Gly His Ile Asn Ser Tyr Leu Lys Pro Met Leu Gln Arg			
77	130	135	140	
79	gat ttc ata act gct ctg cca gct cgg gga ttg gat cat atc gct gag			543
80	Asp Phe Ile Thr Ala Leu Pro Ala Arg Gly Leu Asp His Ile Ala Glu			
81	145	150	155	
83	aac att ctg tca tac ctg gat gcc aaa tca cta tgt gct gct gaa ctt			591
84	Asn Ile Leu Ser Tyr Leu Asp Ala Lys Ser Leu Cys Ala Ala Glu Leu			
85	160	165	170	
87	gtg tgc aag gaa tgg tac cga gtg acc tct gat ggc atg ctg tgg aag			639
88	Val Cys Lys Glu Trp Tyr Arg Val Thr Ser Asp Gly Met Leu Trp Lys			
89	175	180	185	190
91	aag ctt atc gag aga atg gtc agg aca gat tct ctg tgg aga ggc ctg			687
92	Lys Leu Ile Glu Arg Met Val Arg Thr Asp Ser Leu Trp Arg Gly Leu			
93	195	200	205	
95	gca gaa cga aga gga tgg gga cag tat tta ttc aaa aac aaa cct cct			735
96	Ala Glu Arg Arg Gly Trp Gly Gln Tyr Leu Phe Lys Asn Lys Pro Pro			
97	210	215	220	
99	gac ggg aat gct ccc aac tct ttt tat aga gca ctt tat cct aaa			783
100	Asp Gly Asn Ala Pro Pro Asn Ser Phe Tyr Arg Ala Leu Tyr Pro Lys			
101	225	230	235	
103	att ata caa gac att gag aca ata gaa tct aat tgg aga tgt gga aga			831
104	Ile Ile Gln Asp Ile Glu Thr Ile Glu Ser Asn Trp Arg Cys Gly Arg			
105	240	245	250	
107	cat agt tta cag aga att cac tgc cga agt gaa aca agc aaa gga gtt			879
108	His Ser Leu Gln Arg Ile His Cys Arg Ser Glu Thr Ser Lys Gly Val			
109	255	260	265	270
111	tac tgt tta cag tat gat gat cag aaa ata gta agc ggc ctt cga gac			927
112	Tyr Cys Leu Gln Tyr Asp Asp Gln Lys Ile Val Ser Gly Leu Arg Asp			
113	275	280	285	
115	aac aca atc aag atc tgg gat aaa aac aca ttg gaa tgc aag cga att			975
116	Asn Thr Ile Lys Ile Trp Asp Lys Asn Thr Leu Glu Cys Lys Arg Ile			
117	290	295	300	
119	ctc aca ggc cat aca ggt tca gtc ctc tgt ctc cag tat gat gag aga			1023
120	Leu Thr Gly His Thr Gly Ser Val Leu Cys Leu Gln Tyr Asp Glu Arg			
121	305	310	315	
123	gtg atc ata aca gga tca tcg gat tcc acg gtc aga gtg tgg gat gta			1071
124	Val Ile Ile Thr Gly Ser Ser Asp Ser Thr Val Arg Val Trp Asp Val			
125	320	325	330	

RAW SEQUENCE LISTING DATE: 10/05/2000
 PATENT APPLICATION: US/09/601,168 TIME: 14:54:23

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\10052000\I601168.raw

127 aat aca ggt gaa atg cta aac acg ttg att cac cat tgt gaa gca gtt	1119
128 Asn Thr Gly Glu Met Leu Asn Thr Leu Ile His His Cys Glu Ala Val	
129 335 340 345 350	350
132 ctg cac ttg cgt ttc aat aat ggc atg atg gtc acc tgc tcc aaa gat	1167
133 Leu His Leu Arg Phe Asn Asn Gly Met Met Val Thr Cys Ser Lys Asp	
134 355 360 365	365
136 cgt tcc att gct gta tgg gat atg gcc tcc cca act gac att acc ctc	1215
137 Arg Ser Ile Ala Val Trp Asp Met Ala Ser Pro Thr Asp Ile Thr Leu	
138 370 375 380	380
140 cgg agg gtg ctg gtc gga cac cga gct gtc aat gtt gta gac ttt	1263
141 Arg Arg Val Leu Val Gly His Arg Ala Ala Val Asn Val Val Asp Phe	
142 385 390 395	395
144 gat gac aag tac att gtt tct gca tct ggg gat aga act ata aag gta	1311
145 Asp Asp Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr Ile Lys Val	
146 400 405 410	410
148 tgg aac aca agt act ttt gta agg acc tta aat gga cac aaa	1359
149 Trp Asn Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn Gly His Lys	
150 415 420 425 430	430
152 cga ggc att gcc tgt ttg cag tac agg gac agg ctg gta gtg agt ggc	1407
153 Arg Gly Ile Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val Val Ser Gly	
154 435 440 445	445
156 tca tct gac aac act atc aga tta tgg gac ata gaa tgt ggt gca tgt	1455
157 Ser Ser Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys Gly Ala Cys	
158 450 455 460	460
160 tta cga gtg tta gaa ggc cat gag gaa ttg gtg cgt tgt att cga ttt	1503
161 Leu Arg Val Leu Glu Gly His Glu Glu Leu Val Arg Cys Ile Arg Phe	
162 465 470 475	475
164 gat aac aag agg ata gtc agt ggg gcc tat gat gga aaa att aaa gtg	1551
165 Asp Asn Lys Arg Ile Val Ser Gly Ala Tyr Asp Gly Lys Ile Lys Val	
166 480 485 490	490
168 tgg gat ctt gtg gct ttg gac ccc cgt gct cct gca ggg aca ctc	1599
169 Trp Asp Leu Val Ala Ala Leu Asp Pro Arg Ala Pro Ala Gly Thr Leu	
170 495 500 505 510	510
172 tgt cta cgg acc ctt gtg gag cat tcc gga aga gtt ttt cga cta cag	1647
173 Cys Leu Arg Thr Leu Val Glu His Ser Gly Arg Val Phe Arg Leu Gln	
174 515 520 525	525
176 ttt gat gaa ttc cag att gtc agt agt tca cat gat gac aca atc ctc	1695
177 Phe Asp Glu Phe Gln Ile Val Ser Ser His Asp Asp Thr Ile Leu	
178 530 535 540	540
180 atc tgg gac ttc cta aat gat cca gct gcc caa gct gaa ccc ccc cgt	1743
181 Ile Trp Asp Phe Leu Asn Asp Pro Ala Ala Gln Ala Glu Pro Pro Arg	
182 545 550 555	555
184 tcc cct tct cga aca tac acc tac atc tcc aga taaaataacca tacactgacc	1796
185 Ser Pro Ser Arg Thr Tyr Thr Tyr Ile Ser Arg	
186 560 565	565
188 tcatacttgc ccaggaccca taaaagtgc ggtatattaac gtagtgcac ataccaggat	1856
190 gagcaacaac agtaacaatc aactactgc ccagtcccc tggactagcc gaggagcagg	1916
192 gctttgagac tccgttggg acacagttgg tctgcagtcg gcccaggacg gtctactcag	1976
194 cacaactgac tgcttcagtg ctgctatcg aagatgtctt ctatcaattg tgaatgatty	2036

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/601,168

DATE: 10/05/2000
TIME: 14:54:23

Input Set : A:\PTO.txt
Output Set: N:\CRF3\10052000\I601168.raw

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196 gaactttaa acctccctc ctctccctt ttcacccctg cacctagtt ttcccattg 2096
198 gttccagaca aagggtacctt ataaatataat ttgtgtttt gccagaaaa aaaaa. 2151
322 <210> SEQ ID NO: 3
323 <211> LENGTH: 19
E--> 324 <212> TYPE: ADN
325 <213> ORGANISM: Artificial sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: Description of the artificial sequence : sense primer
330 <400> SEQUENCE: 3
331 ccaactgcg tataacgcg 19
334 <210> SEQ ID NO: 4
335 <211> LENGTH: 20
E--> 336 <212> TYPE: ADN
337 <213> ORGANISM: Artificial sequence
339 <220> FEATURE:
340 <223> OTHER INFORMATION: Description of the artificial sequence : antisense primer
342 <400> SEQUENCE: 4
343 ggtgaatcaa cgtgttttagc 20
346 <210> SEQ ID NO: 5
347 <211> LENGTH: 20
E--> 348 <212> TYPE: ADN
349 <213> ORGANISM: Artificial sequence
351 <220> FEATURE:
352 <223> OTHER INFORMATION: Description of the artificial sequence : sense primer
354 <400> SEQUENCE: 5
355 ggatgtgtataaactatc 20
358 <210> SEQ ID NO: 6
359 <211> LENGTH: 25
E--> 360 <212> TYPE: ADN
361 <213> ORGANISM: Artificial sequence
363 <220> FEATURE:
364 <223> OTHER INFORMATION: Description of the artificial sequence : antisense primer
366 <400> SEQUENCE: 6
367 ttatccccag atctggatttg tgg 25
370 <210> SEQ ID NO: 7
371 <211> LENGTH: 30
E--> 372 <212> TYPE: ADN
373 <213> ORGANISM: Artificial sequence
375 <220> FEATURE:
376 <223> OTHER INFORMATION: Description of the artificial sequence : primer
378 <400> SEQUENCE: 7
379 ccaggatcttataacaatc tgacagc 30
382 <210> SEQ ID NO: 8
383 <211> LENGTH: 29
E--> 384 <212> TYPE: ADN
385 <213> ORGANISM: Artificial sequence
387 <220> FEATURE:
388 <223> OTHER INFORMATION: Description of the artificial sequence : primer
390 <400> SEQUENCE: 8

```

Refer
to
P.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/601,168

DATE: 10/05/2000

TIME: 14:54:23

Input Set : A:\PTO.txt

Output Set: N:\CRF3\10052000\I601168.raw

391 ccaggatcct tagtcccaga tgaggattg
398 1

29

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/601,168

DATE: 10/05/2000
TIME: 14:54:24

Input Set : A:\PTO.txt
Output Set: N:\CRF3\10052000\I601168.raw

L:0 M:201 W: Mandatory field data missing, FILE REFERENCE
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:324 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:336 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:348 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:360 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:372 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:384 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: